

# GSAS v3.2.2 Release Notes

## Introduction

GSAS 3.2.2 is a minor release which fixes (1) a problem caused by an offset between the GLAS and SC MET counts, (2) a minor GLA04 conversion change, and (3) another transfer-orbit-related fix to createGran\_util.

## Release Information

The ClearCase label for this release is RELEASE\_3.2.2.

The release date is February 05, 2003.

Internal version numbers have been updated to "V3.2.2 February 2003" for the following:

```
./data/anc07_001_01_0000.dat  
./bin/GLAS_L0proc  
./lib/libprod.sl
```

This should be verified during operation by checking the version information in the appropriate ANC06 files.

All other internal version numbers remain at "V3.1 December 2002", "V3.2 January 2003", or "V3.2.1 January 2003".

## SMDS Impact

The distribution tarfile is on [glasdev.wff.nasa.gov](http://glasdev.wff.nasa.gov) at the following location:

```
/glasdev1/v3/dist/gsas_v3.2.2.tar.z.
```

New versions of the following anc07 data file is (semi) required (and provided):

```
data/anc07_001_01_0000.dat
```

NOTE: the only change to the anc07 file is the addition of an error message for a sanity-check violation which should, in actuality, never really happen. The result of this sanity-check is a fatal error. That is the same result as if an undefined error is called. It is left to the description of the SDMS team if they want to use the updated anc07 file.

A new version of the ANC33 file, which removes the workaround-line, IS REQUIRED! This file will be sent by the ISF.

All libraries and binaries should be recompiled using the top-level Makefile. The newly-created versions should be installed within the testbed (pending CCB release for operations).

## Product Changes

No product sizes were changed.

The parameters boreh and borev in GLA04-04 are now correctly converted to arcseconds.

## Detailed Change Notes

### **PR0000135: GLOP error in record index when switching grouping packet type .**

The software sorts the APIDs, based on unconverted MET, before assigning rec\_ndx. Since the GLAS and SC METs are set differently, this sorting does not work as expected. To solve this issue, I have taken the conservative approach of moving the sort to a point after METs are replaced by UTCTimes. However, this means that each individual APID must be matched against the ANC33 file in order to find the correct MET offsets.

### **PR0000136: GL0P sanity check that packets grouped are within 1 second**

Added a check within GLAS\_L0proc which verifies that  $\text{abs}((\text{utctime} * 10) - \text{recndx}) \leq 10$ .

### **PR0000137: L1A sanity check that record index is in order**

Added code to GLA00\_mod which checks that rec\_ndx and utctime do not move backwards.

### **PR000084: IST boresight H and V is not in arcseconds**

Removed asec2amin conversion from L\_Att.

### **PR0000124: CreateGran\_util generates duplicate track numbers while running in transfer orbit mode**

During the normal processing on SDMS, it was noticed that there were duplicate tracks generated by createGran for different time periods. This causes Granule names that are incorrect.

## Changed files

```
Makefile@@/main/WFF/CR0000135/1
data/anc07_001_01_0000.dat@@/main/WFF/CR0000135/1
src/common_libs/prod_lib/GLA00_mod.f90@@/main/WFF/CR0000135/1
src/common_libs/prod_lib/vers_prod_mod.f90@@/main/WFF/CR0000135/1
src/glas_l0p/GLAS_L0proc.f90@@/main/WFF/CR0000135/1
src/glas_l0p/glop_mod.f90@@/main/WFF/CR0000135/0
src/glas_l0p/time_conversion_mod.f90@@/main/WFF/CR0000135/1
src/lla_lib/L_Att_mod.f90@@/main/WFF/CR0000135/1
src/lla_lib/vers_lla_mod.f90@@/main/WFF/CR0000135/1
```